

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of: M. DREWNIAK *et al.* Confirmation No.: 3423
Application No: 10/072,536 Group Art Unit: 1713
Filing Date: February 7, 2002 Examiner: Henry S. Hu
Attorney Docket No.: 86006-6400
For: HIGH MELT-STRENGTH POLYOLEFIN
COMPOSITES AND METHODS FOR
MAKING AND USING SAME

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DEC 12 2003
JC 1700

THIRD INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

Sir:

Pursuant to Applicant's duty of disclosure under 37 C.F.R. § 1.56, enclosed is a Form PTO-1449 listing twenty-four (24) references in chronological or alphabetical order. Copies of these references are also enclosed for the Examiner's review.

It is respectfully requested that the references be made of record in this application by the Examiner's completion and return of the attached Form PTO-1449.

This Information Disclosure Statement is filed under § 37 CFR 1.97(c)(2). The Commissioner is authorized to charge the \$180 fee associated with this filing, as well as any additional fees which may be required, to Winston & Strawn LLP Deposit Account No. 50-1814.

Respectfully submitted,

Dec. 8, 2003

Date

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WINSTON & STRAWN LLP
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202-371-5770

Enclosures

LIST OF REFERENCES CITED BY APPLICANT
Form PTO-1449
(Use several sheets if necessary)

ATTY. DOCKET NO.:

86006-6400

APPLICATION NO.:

REC 072,536

APPLICANT:

Marta DREWNIAK et al.

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FILING DATE:

February 7, 2002

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Sheet 1 of 1

U.S. PATENT DOCUMENTS

| *EXAMINER INITIAL PATENT & TRADEMARK OFFICE | CITE INDEX | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|--|------------|-----------------|---------|-----------------|-------|----------|----------------------------|
| | AA | 5,759,938 | 06/1998 | Cody et al. | 502 | 62 | |
| | AB | 6,036,765 | 03/2000 | Farrow et al. | 106 | 487 | |
| | AC | 6,051,643 | 04/2000 | Hasegawa et al. | 524 | 445 | |
| | AD | 6,103,817 | 08/2000 | Usuki et al. | 524 | 574 | |
| | AE | 6,117,932 | 09/2000 | Hasegawa et al. | 524 | 445 | |
| | AF | 6,136,908 | 10/2000 | Liao et al. | 524 | 445 | |
| | AG | 6,225,394 B1 | 05/2001 | Lan et al. | 524 | 445 | |
| | AH | 6,380,295 B1 | 04/2002 | Ross et al. | 524 | 443 | |
| | AI | 6,451,897 B1 | 09/2002 | Niyogi | 524 | 445 | |
| | AJ | 6,462,122 B1 | 10/2002 | Qian et al. | 524 | 445 | |
| | AK | 6,583,209 B2 | 06/2003 | Mehta et al. | 524 | 445 | 09/06/2001 |

FOREIGN PATENT DOCUMENTS

| | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION | |
|--|----|-----------------|---------|---------|-------|----------|-------------|----|
| | | | | | | | YES | NO |
| | AL | EP 0 807 659 B1 | 11/1999 | EPO | | | ✓ | |
| | AM | EP 1 055 706 A1 | 11/2000 | EPO | | | ✓ | |
| | AN | WO 01/30864 A2 | 05/2001 | WIPO | | | | |
| | AO | WO 01/48080 A1 | 07/2001 | WIPO | | | | |
| | AP | WO 02/066553 A2 | 08/2002 | WIPO | | | | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| | |
|----|--|
| AQ | Galgal, G., et al., "A Rheological Study on the Kinetics of Hybrid Formation in Polypropylene Nanocomposites," <i>Macromolecules</i> , Vol. 34, pp. 852-858 (2001). |
| AR | Kim, K-N., et al., "Mixing Characteristics and Mechanical Properties of Polypropylene-Clay Composites," <i>ANTEC 2000</i> , Vol. 3, pp. 3782-3786 (2000). |
| AS | Kodigure, P., et al., "PP/Clay Nanocomposites: Effect of Clay Treatment on Morphology and Dynamic Mechanical Properties," <i>J. Applied Science</i> , Vol. 81, pp. 1786-1792 (2001). |
| AT | Kurokawa, Y., et al., "Structure and Properties of a Montmorillonite/Polypropylene Nanocomposite," <i>J. Materials Science Letters</i> , Vol. 16, pp. 1670-1672 (1997). |
| AU | Oya, A., "Polypropylene-Clay Nanocomposites," <i>Wiley Series in Polymer Science</i> , John Wiley & Sons, Ltd., Chapter 8, pages 152-172 (2000). |
| AV | Oya, A., et al., "Factors Controlling Mechanical Properties of a Clay Mineral/Polypropylene Nanocomposite," <i>J. Materials Science</i> , Vol. 35, pp. 1045-1050 (2000). |
| AW | Reichert, P., et al., "Poly(propylene)/Organoclay Nanocomposite Formation: Influence of Compatibilizer Functionality and Organoclay Modification," <i>Macromol. Mater. Eng.</i> , Vol. 275, pp. 8-17 (2000). |
| AX | Solomon, M.J., et al., "Rheology of Polypropylene/Clay Hybrid Materials," <i>Macromolecules</i> , Vol. 34, pp. 1864-1872 (2001). |
| AY | Svoboda, P., et al.: "Structure and Mechanical Properties of Polypropylene and Polystyrene/Organoclay Nanocomposites," Department of Chemical Engineering, The Ohio State University, June 25-27, 2001. |

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.